

ABSTRACT

A process for compacting a green compact includes the steps of applying a higher fatty acid-based lubricant to an inner surface of a die, filling a raw material powder whose major component is an active metallic element into the die, compacting the raw material powder by warm pressurizing to make a green compact, and ejecting the green compact from the die, whereby the resulting green compact has a high density. It is possible to form active metallic powders including an active metallic element such as Ti and Al by pressurizing by high pressures, and to produce high-density green compacts which have not been available conventionally.